

# Rohan Badiga

Cerritos, California

Software Engineer | <https://github.com/Agentrb241/Portfolio.git>

## EDUCATION

**University of California, Riverside**  
*Graduation: 2021*  
B.S. Computer Engineering

### Relevant Courses

- Architecture of Computer Systems
- Circuit Analysis
- Concurrent Programming
- Digital & Analog Signals & Systems Embedded & Real-Time Systems Logic Design
- Operating Systems
- Database Management Systems
- Software Construction
- Software Engineering Principles

## TECHNICAL SKILLS

C++ (Preferred)  
C  
Python  
Java  
JavaScript  
CSS/HTML  
Verilog  
PostgreSQL  
Assembly Language

## TOOLS

Embedded Systems  
Arduino/AT Mega  
Git  
Visual Studio  
MS Office  
Greenfoot  
BlueJ  
MATLAB  
Android Studio  
Maven  
IntelliJ

## PROFESSIONAL EXPERIENCE

### Software Engineering Intern

*Epson America Inc.*

- Analyzes, designs, coordinates, and codes the development of software systems to form a basis for the solution of information processing problems using Java/HTML/CSS/JavaScript/SQL/etc
- Worked on database integration by parsing JSON files to fill product descriptions on company website along with implementation of new features for web UI applications.
- Worked on company Migration from Lotus Notes to Office 365 integration.
- Participated in reviewing computer system capabilities, workflow, and scheduling limitations to determine if requested changes to operating system are possible

### Work Order and Small Projects Personnel

*University of California, Riverside: Facilities Services*

- Organized merger between TMS and Famous systems to increase productivity by 200%
- Helped manage over 1000 work orders and 100 projects
- Built & managed 3 databases on MS Access

## PROJECTS

### Smart Battery Charger

*Circuit Construction, Embedded Systems, Arduino, MS Visio*

- Built a Smart Battery charger that can charge a NiCad battery at 1/10C using PCB level hardware
- Designed application with real time data collection to control equipment that measures battery charging potential utilizing cost effective methods in battery charging
- Made over 30 Flowcharts defining individuals functions in project and show data flow
- Utilized chip interfacing for communication between sensors and circuit

### Flappy Bird

*C, Embedded Systems, ATmega1284*

- Built with Analog Stick and 8x8 LED Matrix and one button for reset purposes with microcontroller interfacing
- 3 programmed levels with increasing difficulty programmed in finite state machines
- Created 3 synchronized state machines for real time input

### Hospital Appointment Database

*Java, Java Database Connector, PostgreSQL*

- Database design and implementation using PostgreSQL in client application using Java Database Connector
- Created ER diagrams to depict relationships between entities in database
- Supported specific functions for establishing queries and creating tables for book keeping of list of appointment availability for doctors in different departments.

### Uber Analytics Application

*Java, Android Studio, Tomcat*

- Designed application that shows interactive data for UBER in New York using REST API architecture in Java
- Created a CSV to JSON parser and used parsed data to show analytics in bar-graph form and display top-10 query results from index
- Analyzes performance indicators such as system's response time, number of transactions per second, and number of programs being processed at once, to ensure that system is operating efficiently
- Utilized Tomcat and Apache servers for cloud server management

### Star Wars in Java

*Java, BlueJ, Greenfoot*

- Created a 16-bit game with GUI and user input similar to classic side-scrollers.
- All characters have full animations for not only control but special effects too.
- Uses predictive algorithms for enemy to dodge attacks and track player.

## LEADERSHIP

### Vice President of Finance

*Inter-Fraternity Council at University of California, Riverside*

- In charge of finances and budgets for 8 on campus Fraternities and ensuring IFC budget for activities is intact.
- In charge of organizing recruitment events for Winter Quarter. Always stayed focused on the logistics of getting new members to take part in campus Greek Life.
- Budgeting expenditures for the IFC and balancing the budget so the chapters run within the limit.



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